SHARP

MINI COMPONENT SYSTEM

MODEL

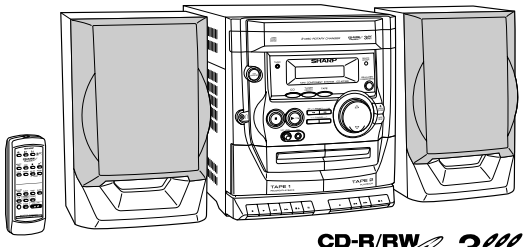
CD-XP120W

OPERATION MANUAL

COMPACT disc DIGITAL AUDIO

Thank you for purchasing this SHARP product.
To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

CD-XP120W Mini Component System consisting of CD-XP120W (main unit) and CP-XP120 (speaker system).



CD-R/RW Playable 3 DISC

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Special notes

Warning:

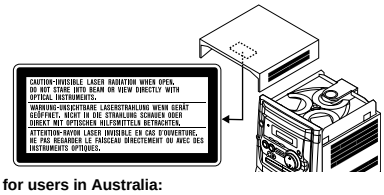
- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the apparatus.

CAUTION

- This product is classified as a CLASS 1 LASER product.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW


CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.
ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES INSTRUMENTS OPTIQUES.

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For other countries:
Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to the relevant laws in your country.

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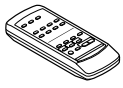
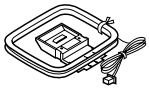
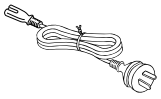
Accessories

Please confirm that the following accessories are included.

				
Remote control × 1	**"AA" size battery (UM/ SUM-3, R6, HP-7 or similar) × 2**	**AM loop aerial × 1**	**FM aerial × 1**	**AC power lead × 1**

Note:
Only the above accessories are included.

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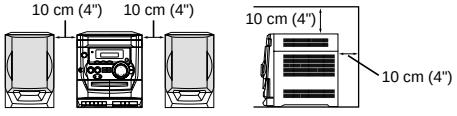
Precautions

■ General

- Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.



- Use the unit on a firm, level surface free from vibration.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generates electrical noise.
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels.

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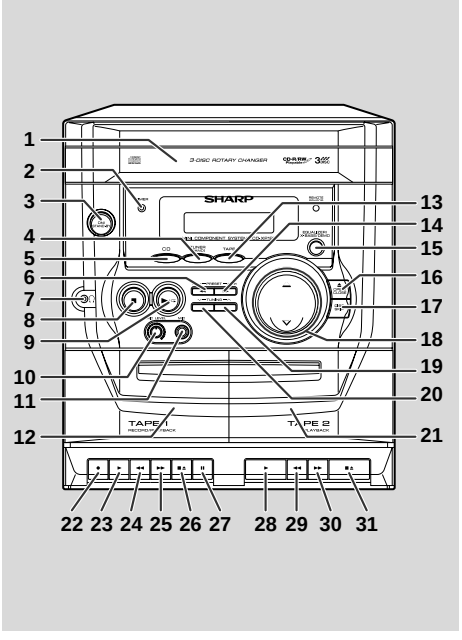
Controls and indicators



■ Front panel

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29. Tape 2 Rewind Button 20
30. Tape 2 Fast Forward Button 20
31. Tape 2 Stop/Eject Button 20

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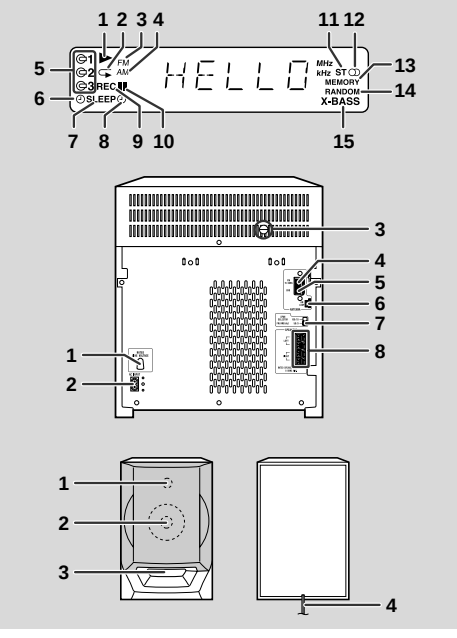
Controls and indicators (continued)



■ Display

1. CD Play Indicator
2. CD Repeat Play Indicator
3. FM Station Indicator
4. AM Station Indicator
5. Disc Number Indicators
6. Clock Indicator
7. Sleep Indicator
8. Timer Play Indicator
9. Tape 1 Record Indicator
10. CD Pause Indicator
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■ Speaker system

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2. Woofer
3. Bass Reflex Duct
4. Speaker Wire

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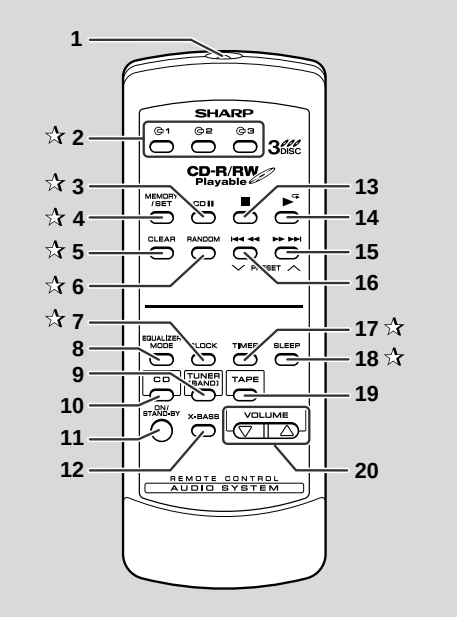

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10. CD Button 14, 22
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12. Extra Bass Button 12
13. CD Stop Button 15
14. CD Play or Repeat Button 14, 16
15. CD Track Up or Fast Forward, Tuner Preset Up Button 15, 19
16. CD Track Down or Fast Reverse, Tuner Preset Down Button 15, 19
17. Timer Button 24
18. Sleep Button 25
19. Tape Button 20, 23
20. Volume Up and Down Buttons 12

Buttons with "☆" mark in the illustration can be operated on the remote control only.

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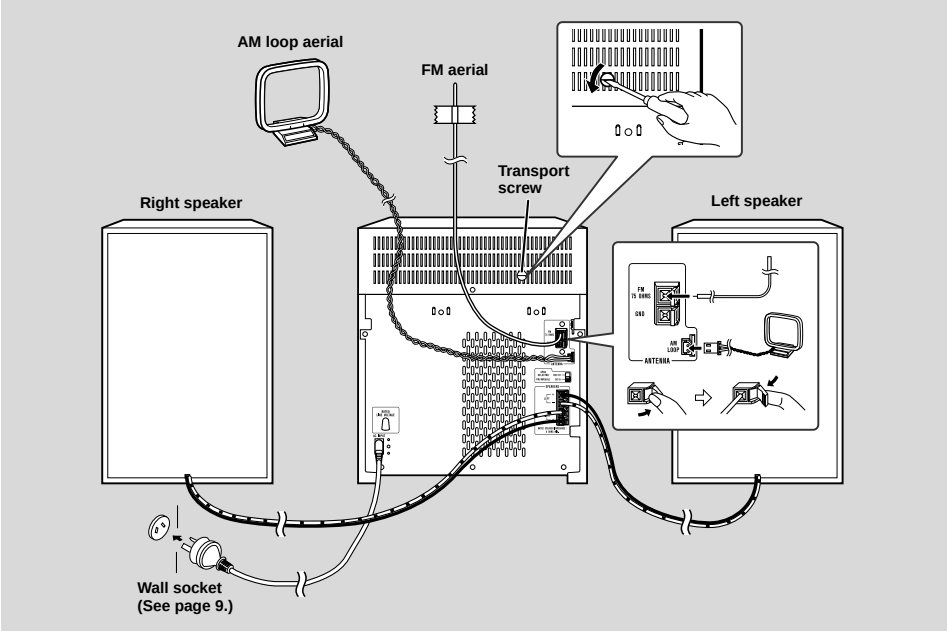
System connections



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■ Removing the transport screw

Before turning the power on, be sure to remove the transport screw on the back of the unit using a flat head screwdriver or a coin.

Note:
This screw is required when transporting the unit again. Please keep it (see page 27).

■ Aerial connection

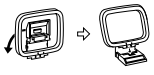
Supplied FM aerial:
Connect the FM aerial wire to the FM 75 OHMS terminal and position the FM aerial wire in the direction where the strongest signal can be received.

Supplied AM loop aerial:
Connect the AM loop aerial to the AM LOOP socket. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).

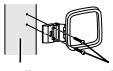
Note:
Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.

Installing the AM loop aerial:

< Assembling >

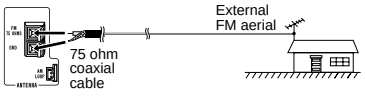


< Attaching to the wall >



Wall Screws (not supplied)

External FM aerial:
Use an external FM aerial if you require better reception. Consult your dealer.

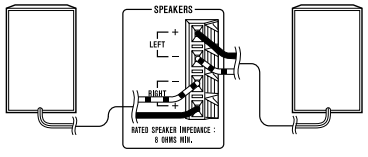


Note:
When an external FM aerial is used, disconnect the supplied FM aerial wire.

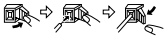
■ Speaker connection

Connect the wire with the white line to the minus (-) terminal and the plain wire to the plus (+) terminal.

Right speaker **Left speaker**

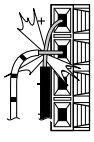


Plain
White line



Caution:

- Use speakers with an impedance of 8 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- **Do not let the bare speaker wires touch each other.**
- Do not allow any objects to fall into or to be placed in the bass reflex ducts.
- Do not stand or sit on the speakers. You may be injured.



Incorrect

Note:
The speaker grilles are not removable.

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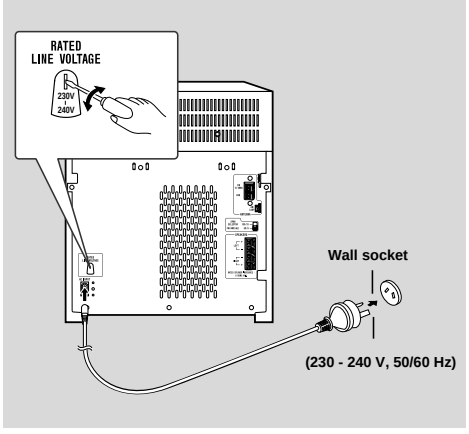
System connections (continued)



■ Setting the AC voltage selector

Check the setting of the AC voltage selector located on the rear panel before plugging the unit into a wall socket. If necessary, adjust the selector to correspond to the AC power voltage used in your area.

Turn the selector with a screwdriver until the appropriate voltage number appears in the window (110 V, 127 V, 220 V or 230 V - 240 V AC).

■ Connecting the AC power lead

After checking all the connections have been made correctly, connect the AC power lead to the AC power input socket, then plug the AC power lead of this unit into the wall socket. If you plug in the unit first, the unit will enter the demonstration mode (see page 10).

Notes:

- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.
- Never use a power lead other than the one supplied. Otherwise, a malfunction or an accident may occur.

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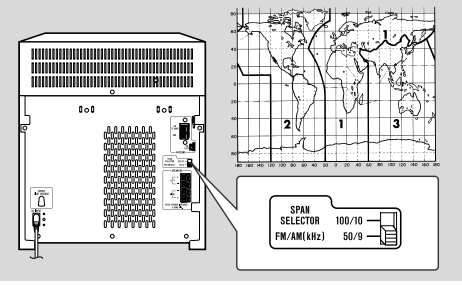
■ Setting the FM/AM span selector



The International Telecommunication Union (ITU) has established that member countries should maintain either a 100 kHz or a 50 kHz interval between broadcasting frequencies of FM stations and 10 kHz or 9 kHz for AM station. The illustration shows the 50/9 kHz zones (regions 1 and 3), and the 100/10 kHz zone (region 2).
Before using the unit, set the SPAN SELECTOR switch (on the rear panel) to the interval (span) of your area.

To change the tuning zone:

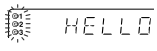
1 Press the ON/STAND-BY button to enter the stand-by mode.
2 Set the SPAN SELECTOR switch (on the rear panel) as follows.
- For 100 kHz FM interval (10 kHz in AM) → 100/10
- For 50 kHz FM interval (9 kHz in AM) → 50/9

3 Whilst pressing down the TUNER (BAND) button and the DISC SKIP button, press the ON/STAND-BY button until "CLEAR" appears.

Caution:
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

■ Demonstration mode

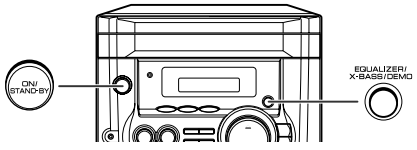
The first time the unit is plugged in, the unit will enter the demonstration mode. You will see words scroll.



To cancel the demonstration mode:
When the unit is in the power stand-by mode (demonstration mode), press the EQUALIZER/X-BASS/DEMO button. The demonstration mode will be cancelled and the display will disappear.

To return to the demonstration mode:
When the unit is in the power stand-by mode, press the EQUALIZER/X-BASS/DEMO button again.

Note:
When the power is on, the EQUALIZER/X-BASS/DEMO button can be used to select the pre-programmed equaliser and extra bass modes.



■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

After use:
Press the ON/STAND-BY button to enter the power stand-by mode.

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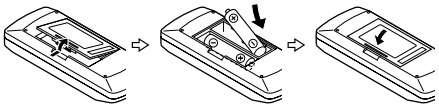
Remote control

■ Battery installation

1 **Remove the battery cover.**
2 **Insert the batteries according to the direction indicated in the battery compartment.**
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 **Replace the cover.**



Precautions for battery use:
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

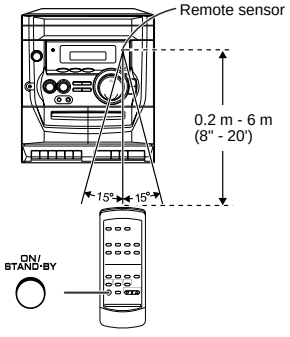
Caution:
- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries incorrectly may cause the unit to malfunction.

Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

■ Test of the remote control

Check the remote control after checking all connections have been made correctly. (See pages 7 - 9.)
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy music.



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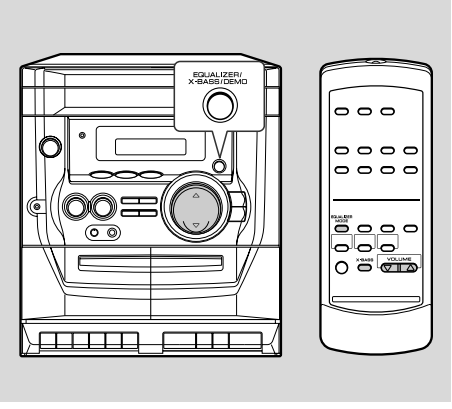
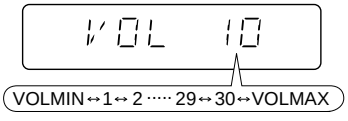
Sound control



■ Volume control

Press the VOLUME (△ or ▽) button to increase or decrease the volume.



■ Pre-programmed equaliser/Extra bass (X-BASS)

When the power is first turned on, the unit will enter the flat (X-BASS on) mode which emphasises the bass frequencies, and "X-BASS" will appear.

Changing the mode:
Press the EQUALIZER/X-BASS/DEMO (EQUALIZER MODE) button repeatedly until the desired sound mode appears.

FLAT (X-BASS off)	The sound is not modified.
JAZZ (X-BASS off)	Treble is cut a little.
ROCK (X-BASS off)	Bass and treble are emphasised.
CLASSIC (X-BASS off)	Treble is reduced a lot.
POPS (X-BASS off)	Bass and treble are slightly emphasised.
VOCAL (X-BASS off)	Vocals (midrange tones) are emphasised.
FLAT (X-BASS on)	Bass frequencies are emphasised.

To enter or cancel the extra bass mode:
The X-BASS button on the remote control allows you to switch between "FLAT (X-BASS on)" and "FLAT (X-BASS off)".

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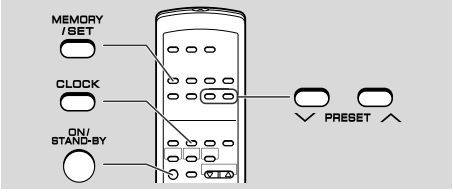
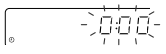
Setting the clock



This may be operated only with the remote control.
In this example, the clock is set for the 24-hour (0:00) display.

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CLOCK button and within 8 seconds, press the MEMORY/SET button.



3 Within 30 seconds, press the PRESET (∨ or ∧) button to select 24-hour or 12-hour display and then press the MEMORY/SET button.

"0:00" → The 24-hour display will appear. (0:00 - 23:59)

"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)

Note that this can only be set when the unit is first installed or it has been reset. [Refer to "Clearing all the memory (reset)" on page 27 for details.]

4 Within 30 seconds, press the PRESET (∨ or ∧) button to adjust the hour and then press the MEMORY/SET button.

- Press the PRESET (∨ or ∧) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

5 Within 30 seconds, press the PRESET (∨ or ∧) button to adjust the minutes and then press the MEMORY/SET button.

- Press the PRESET (∨ or ∧) button once to advance the time by 1 minute. Hold it down to advance continuously.
- The hour will not advance even if minutes advance from "59" to "00".

To confirm the time display:
Press the CLOCK button.
The time display will appear for about 8 seconds.

Note:
The time will flash at the push of the CLOCK button when the AC power supply is restored after a power failure or unplugging the unit. Readjust the clock as follows.

To readjust the clock:
Perform "Setting the clock" from the beginning. If the time display is flashing, step 3 (for selecting the 24-hour or 12-hour display) will be skipped.

To change the 24-hour or 12-hour display:

1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 27 for details.]
2 Perform "Setting the clock" from the beginning.

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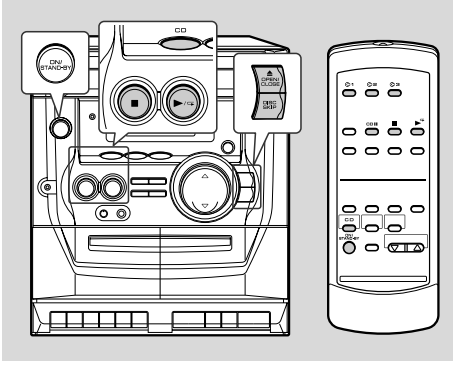
Listening to a CD (CDs)

This system can also play audio CD-R and CD-RW discs, but cannot record.
Some audio CD-R and CD-RW discs may not be playable due to the state of disc or the device that was used for recording.



1 **Press the ON/STAND-BY button to turn the power on.**

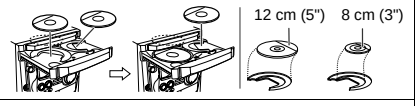
2 **Press the CD button.**

3 **Press the ⏏ OPEN/CLOSE button to open the disc tray.**

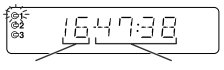
4 **Place the CD(s) on the disc tray, label side up.**

When loading a third disc, press the DISC SKIP button to turn the disc tray, then place the CD in the open position.

- CDs can be placed on any open position on the disc tray.
- Be sure to place 8 cm (3") CD(s) in the middle of the disc positions.



5 **Press the ⏏ OPEN/CLOSE button to close the disc tray.**



Total number of tracks on the CD whose number is flashing

Total playing time of the CD whose number is flashing

6 **To select the CD you want to listen to first, press one of ⓒ 1 - ⓒ 3 buttons on the remote control.**

7 **Press the ► / ⏍ button to start playback.**

- Playback will begin from track 1 on the disc you have selected to play. After that disc finishes playing, the next disc will automatically start playback.
- When the last track on the third disc has finished playing, the CD player will stop automatically.
- When there is no CD in one of the disc 1 - 3 positions, that position will be skipped and the next CD will be played.

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Listening to a CD (CDs) (continued)

To interrupt playback:
Press the CD ⏸ button on the remote control.
To resume playback from the same point, press the ▶ ⥱ button.

To stop playback:
Press the ■ button.

To remove the CDs:
Whilst in the stop mode, press the ⏏ OPEN/CLOSE button.
The disc tray will open. Remove the two discs. Then, press the DISC SKIP button to rotate the disc tray and remove the remaining disc.

Caution:
- If you tilt the unit forward in the power stand-by mode, the disc tray will open. The unit or CD may be damaged.
- Do not place two CDs in one disc tray.
- Do not play discs with special shapes (heart- or octagon-shaped). It may cause malfunctions.
- Do not push the disc tray whilst it is moving.
- Do not turn the disc tray by hand. This may cause malfunctions.
- If the power fails whilst the tray is open, wait until the power is restored.
- If the disc tray is stopped forcibly, "OPEN" will appear in the display. If this occurs, press the ⏏ OPEN/CLOSE button.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
- If a disc is damaged, dirty, or loaded upside down, the disc will skip.

■ To locate the beginning of a track

To move to the beginning of the next track:
Press the ▶▶I / ▶▶ button for less than 0.5 seconds during playback.
To restart the track being played:
Press the I◀◀ / ◀◀ button for less than 0.5 seconds during playback.

Notes:
- You can locate the beginning of a track on a single disc only.
- You can skip to any track by pressing the I◀◀ / ◀◀ or ▶▶I / ▶▶ button repeatedly until the desired track number appears.

■ To locate the desired portion

For audible fast forward:
Press and hold down the ▶▶I / ▶▶ button during playback.
For audible fast reverse:
Press and hold down the I◀◀ / ◀◀ button during playback.

Notes:
- Normal playback will resume when the I◀◀ / ◀◀ or ▶▶I / ▶▶ button is released.
- You can locate the desired portion on a single disc only.
- When the end of the last track is reached during fast forward, the unit will enter the stop mode. When the beginning of the first track is reached during fast reverse, playback will start when you release the I◀◀ / ◀◀ button.

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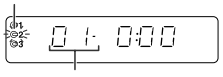
■ Starting playback with a desired track

You can play a disc starting with the desired track.

1 **Whilst in the stop mode, press one of the ⓒ 1 - ⓒ 3 buttons on the remote control or DISC SKIP button to select the desired disc.**

2 **Press the ⏮ / ◀◀ or ▶▶⏭ / ▶▶ button to select the desired track.**

Selected disc number



Selected track number

3 **Press the ▶ / ⮌ button to start playback.**

Playback of the selected track is started. When the end of last track of the disc selected is reached, the next disc will be automatically started.

Notes:

- When the DISC SKIP button is pressed during playback, the next disc will begin automatically.
- When one of the ⓒ 1 - ⓒ 3 buttons on the remote control is pressed during playback, the selected disc will begin automatically.
- If you select a disc with the ⓒ 1 - ⓒ 3 buttons and a track with the ⏮ / ◀◀ or ▶▶⏭ / ▶▶ button, a track number exceeding the total track number on the disc may be displayed (maximum 99). In this case, the last track on the selected disc is played back.

■ Repeat play

All tracks on up to 3 discs, or a programmed sequence can be continuously repeated.

To repeat all tracks on up to 3 discs:

Press the ▶ / ⮌ button twice.

To repeat a desired track:

Perform steps 1 - 4 in the "Programmed play" section on page 17 and then press the ▶ / ⮌ button twice.

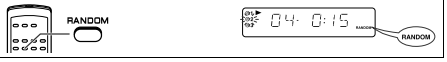
To cancel repeat play:

Press the ▶ / ⮌ button again.
"⮌" will go out.

■ Random play

The tracks on the disc(s) can be played in random order automatically.

Press the RANDOM button on the remote control to begin random play.



To cancel random play:

Press the RANDOM button.

Notes:

- If you press the ▶▶ ▶▶⏭ button during random play, you can move to the track selected next by the random operation. On the other hand, the ⏮ ◀◀ button does not allow you to move to the previous track. The beginning of the track being played will be located.
- In random play, the CD player will select and play tracks automatically. (You cannot select the order of the tracks.)

Caution:

After performing repeat or random play, be sure to press the ■ button. Otherwise, the disc(s) will play continuously.

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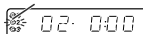
Listening to a CD (CDs) (continued)

■ Programmed play

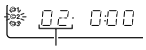
This may be operated only with the remote control.
You can choose up to 20 selections for playback in the order you like.

1 Whilst in the stop mode, press one of the ⊖1 - ⊖3 buttons to select the desired disc.

Selected disc number



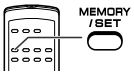
2 Press the I◄◄ / ◄◄ or ►►I / ►► button to select the desired track.

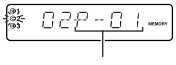


Selected track number

If you select and memorise a track whose number exceeds the last track number on the disc, it will not be played back.

3 Press the MEMORY/SET button to save the track number.





Playback order

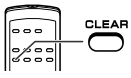
When the track is memorised, "MEMORY" will appear.

4 Repeat steps 1 - 3 for other tracks. Up to 20 tracks can be programmed.

If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR button.

5 Press the ► / ⊂ button to start playback.

To clear the programmed selections:
Whilst the "MEMORY" indicator is lit, set the CD to the stop mode and then press the CLEAR button.
Each time the button is pressed, one track will be cleared, beginning with the last track programmed. When all the tracks are cleared, "MEMORY" will disappear.

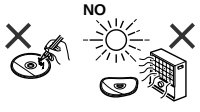


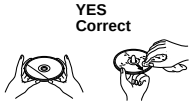
Adding tracks to the programme:
If a programme has been previously stored, the "MEMORY" indicator will be displayed. Then follow steps 1 - 3 to add tracks. The new tracks will be stored after the last track of the original programme.

Notes:
- If you open the disc tray, change to another function or enter the stand-by mode, the programmed sequence is automatically cancelled.
- During programme operation, random play is not possible.

■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.
- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.





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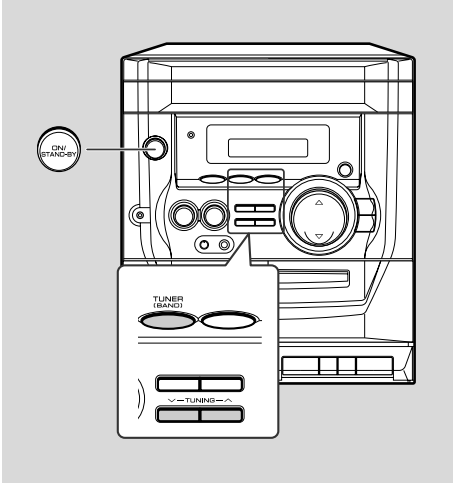
Listening to the radio



■ Tuning

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).**

3 **Press the TUNING (∨ or ∧) button to tune in to the desired station.**

Manual tuning:

Press the TUNING button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:

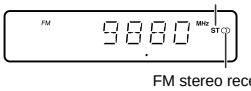
- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING button again.

To receive an FM stereo transmission:

Press the TUNER (BAND) button to display the "ST" indicator.

- "ST" will appear when an FM broadcast is in stereo.

FM stereo mode indicator



FM stereo receiving indicator

- If the FM reception is weak, press the TUNER (BAND) button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

Note:

This product can receive FM stereo/FM monaural and AM monaural broadcasts. AM stereo broadcasts will not be played in stereo.

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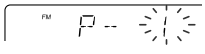
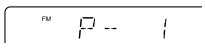
Listening to the radio (continued)

■ Memorising a station

This may be operated only with the remote control.
You can store 30 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)

1	**Perform steps 1 - 3 in "Tuning" on page 18.**
2	**Press the MEMORY/SET button to enter the preset tuning saving mode.** 
3	**Within 5 seconds, press the PRESET (∨ or ∧) button to select the preset channel number.** Store the stations in memory, in order, starting with preset channel 1.
4	**Within 5 seconds, press the MEMORY/SET button to store that station in memory.**  If the preset number indicators go out before the station is memorised, repeat the operation from step 2.
5	**Repeat steps 1 - 4 to set other stations, or to change a preset station.** When a new station is stored in memory, the station previously memorised will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead disconnection.

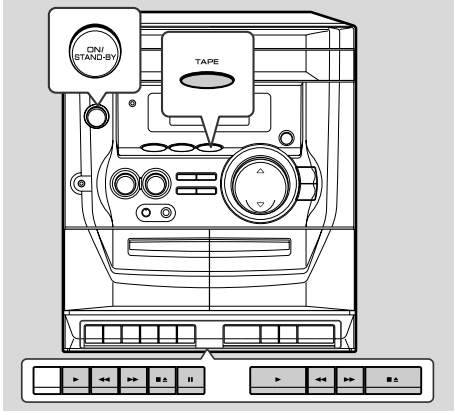
■ To recall a memorised station

Press the PRESET (∨ or ∧) button to select the desired station.

Listening to a cassette tape

Before playback:

- **For playback, use normal or low-noise tapes for the best sound. (Metal or CrO₂ tapes are not recommended.)**
- Do not use C-120 tapes or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or a pencil.



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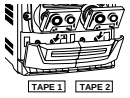
■ TAPE 1 or TAPE 2 playback

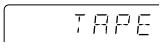
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the ■ ⏏ button to open the cassette door.**

3 **Load a cassette into the TAPE 1 or TAPE 2 cassette compartment with the side to be played facing toward you.**



4 **Press the TAPE button.**



5 **Press the ► button of TAPE 1 or TAPE 2 to start playback.**

To stop playback:
Press the ■ ⏏ button.

Fast forward/rewind:
To advance the tape, press the ■ ⏏ button, then press the ▶▶ button. To rewind, press the ■ ⏏ button, then press the ◀◀ button.

To interrupt playback (TAPE 1 only):
Press the ❚❚ button during playback.
Press the ❚❚ button again to resume playback.

- Do not press the ❚❚ button whilst the fast forward or rewind operations are in progress. The ◀◀ or ▶▶ button will not be released when the tape end is reached. Once this occurs, press the ■ ⏏ button.

Caution:

- Before changing from one tape operation to another, press the ■ ⏏ button.
- If TAPE 1 and TAPE 2 are played simultaneously, only the sound from TAPE 2 will be audible.

■ Continuous playback (TAPE 2 to TAPE 1)

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the ■ ⏏ button to open the cassette door.**

3 **Load cassettes into the TAPE 1 and TAPE 2 cassette compartments with the side to be played facing toward you.**

4 **Press the TAPE button.**

5 **Press the ► button of TAPE 2.**

6 **Press the ❚❚ button of TAPE 1.**

7 **Press the ► button of TAPE 1.**

When TAPE 2 stops at the end of the tape, the ► button of TAPE 2 and the ❚❚ button of TAPE 1 will be automatically released, and TAPE 1 will start playing.

Note:
When in the continuous play mode, pressing the ■ ⏏ button of TAPE 2 will start TAPE 1 automatically.

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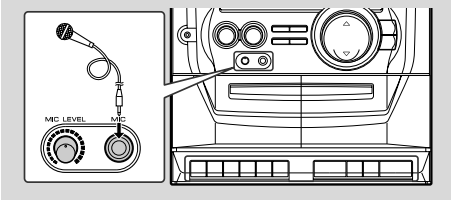
Playing karaoke



1 **Turn the MIC LEVEL control fully anti-clockwise to protect the speakers from shock noise and to avoid disturbing noises.**

2 **Connect the microphone to the MIC socket.**

- Use a microphone with a 6.3 mm (1/4") plug, an impedance of 600 ohms.
- Use a standard plug adaptor when using a microphone with a 3.5 mm (1/8") diameter plug.

3 **Press the ON/STAND-BY button to turn the power on.**

4 **Press the CD, TUNER or TAPE button to select the audio source and play it.**

5 **Adjust the volume of the audio source using the VOLUME buttons.**

6 **Rotate the MIC LEVEL control clockwise to increase the microphone volume and anti-clockwise to decrease it.**

Notes:

- When you sing too loud through the microphone, your voice may be distorted depending on the devices connected. If this happens, lower the microphone volume.
- If an extremely sensitive microphone is used, howling may be generated.
- Unidirectional microphone is more appropriate for vocal use.

If squealing occurs:

- Reduce the microphone volume.
- Change the direction of the microphone.
- Reduce the volume of the main unit.
- Move the microphone away from the speakers.

Caution:

- When not using the microphone, remove it from the MIC socket.
- When connecting or disconnecting the microphone, turn the MIC LEVEL control fully anti-clockwise.

■ Recording of mixed sound to a cassette tape

You can record mixed sound from the microphone and CD, TUNER or TAPE 2.

1 Perform steps 1 - 3 above.
2 Load a cassette into the TAPE 1 cassette compartment.
3 Perform steps 4 - 6 above.
4 Press the II button of TAPE 1.
5 Press the ● button of TAPE 1, which also engages the ► button.
6 Press the II button of TAPE 1 again to begin recording.

Note:

To record the microphone signals only, load a cassette into the TAPE 1 cassette compartment and press the TAPE button. Then, press the ● button of TAPE 1.

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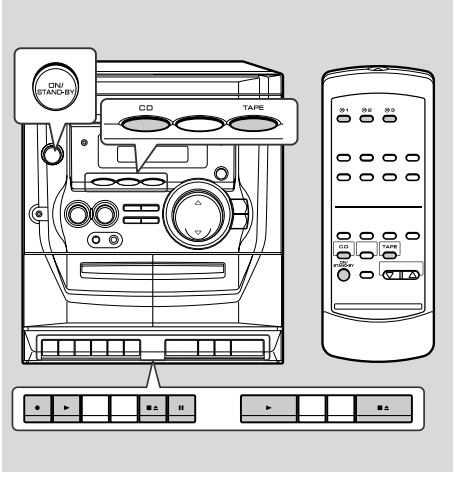
Recording to a cassette tape

Before recording:
- When recording important selections, make a preliminary test to ensure that the desired material is properly recorded.
- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- The volume and sound controls can be adjusted with no effect on the recorded signal (Variable Sound Monitor).
- **For recording, use only normal tapes. Do not use metal or CrO_2 tapes.**



Recording can be operated in the TAPE 1 compartment. The TAPE 2 is for playback only.

■ Recording from a CD (CDs)

You can record 3 CDs continuously.

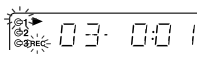
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Load a cassette into the TAPE 1 cassette compartment with the side to be recorded on facing you.**
Wind past the leader of the tape, on which recording cannot be performed.

3 **Press the CD button and load the desired disc.**

4 **Press one of the ⊜1 - ⊜3 buttons on the remote control to select the disc to be recorded first.**

5 **Press the ● button of TAPE 1, which also engages the ► button.**



CD playback and tape recording will start.

To stop recording:
Press the ■ ⏏ button of TAPE 1.

To perform programmed recording:
1 Press the CD button.
2 Programme discs and tracks. (See page 17.)
3 Press the ● button of TAPE 1, which also engages the ► button.

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Recording to a cassette tape (continued)

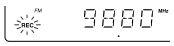
■ Recording from the radio

1 **Tune in to the desired station. (See page 18.)**

2 **Load a cassette into the TAPE 1 cassette compartment with the side to be recorded on facing you.**
Wind past the leader of the tape, on which recording cannot be performed.

3 **Press the II button of TAPE 1.**

4 **Press the ● button of TAPE 1, which also engages the ► button.**



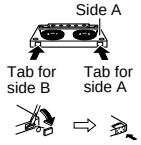
5 **Press the II button of TAPE 1 again to begin recording.**

To stop recording:
Press the ■ ⏏ button of TAPE 1.

Note:
If you hear a whistling noise whilst recording an AM station, move the AM loop aerial.

Erase-prevention tab of cassette tapes:

- When recording on a cassette tape, make sure that the erase-prevention tabs are not removed. Cassettes have removable tabs that prevent accidental recording or erasing.
- To protect the recorded sound, remove the tab after recording. Cover the tab hole with adhesive tape to record on the tape without the tab.



■ Dubbing from tape to tape

You can record from TAPE 2 to TAPE 1.

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Load a prerecorded cassette into the TAPE 2 cassette compartment. Insert a blank tape into the TAPE 1 cassette compartment.**
It is recommended that the recording tape is the same length as the master tape.

3 **Press the TAPE button.**

4 **Press the II button of TAPE 1.**

5 **Press the ● button of TAPE 1, which also engages the ► button.**

6 **Press the ► button of TAPE 2.**

The II button of TAPE 1 will be released automatically and dubbing from TAPE 2 to TAPE 1 will begin.

To stop dubbing:
Press the ■ ⏏ button of TAPE 1.

■ Erasing recorded tapes

1 Load the tape to be erased into the TAPE 1 cassette compartment with the side to be erased facing toward you.
2 Press the TAPE button.
3 Press the ● button of TAPE 1, which also engages the ► button to begin erasing.

Notes:
- Do not connect anything to the MIC socket.
- Make sure that the TAPE 2 is not in use.

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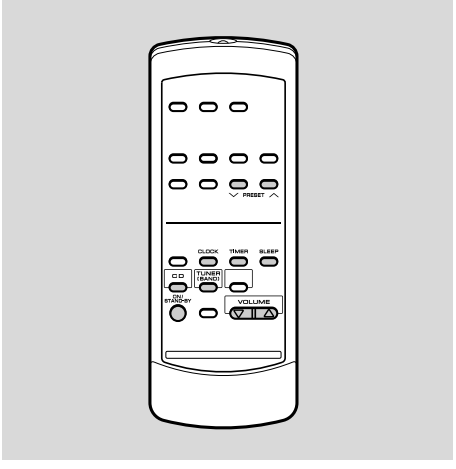
Timer and sleep operation

This may be operated only with the remote control.

Timer playback:
The unit turns on and plays the desired source (CD, tuner) at the preset time.

Sleep operation:
The radio, compact disc and cassette tape can all be turned off automatically.



■ Timer playback

Before setting timer:

1 Press the CLOCK button to check that the clock is on time.
2 Load the discs to be played.

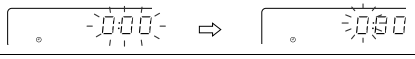
⇩

1 Press the ON/STAND-BY button to turn the power on.

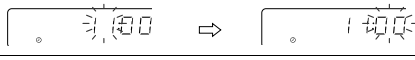
2 Press the CD or TUNER (BAND) button to select the desired function.
When you selected the TUNER (BAND), tune in to the desired station.

3 Adjust the volume using the VOLUME buttons.
Do not turn the volume up too high. Timer playback starts at the volume you set here.

4 Press the TIMER button and within 8 seconds, press the MEMORY/SET button.



5 Within 30 seconds, press the PRESET (∨ or ∧) button to specify the hour to start, then press the MEMORY/SET button.



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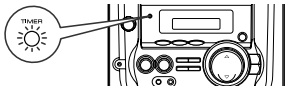
Timer and sleep operation (continued)

6 **Within 30 seconds, press the PRESET (∨ or ∧) button to specify the minute to start, then press the MEMORY/SET button.**

7 **The unit will enter the timer stand-by mode automatically.**



To cancel the timer playback:
Press the ON/STAND-BY button to turn the power on.

8 **When the preset time is reached, playback will start.**

9 **It will enter the power stand-by mode one hour after the timer playback starts.**

To reset or change the timer setting:
Perform "Timer playback" from the beginning.

Note:
Once the time is set, the setting will be retained until a new time is entered.

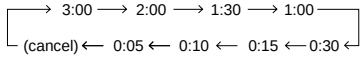
Caution:
Do not turn the volume up too high. Playback starts at the volume set before entering the timer stand-by mode.

■ Sleep operation

1 **Play back the desired sound source.**

2 **Press the SLEEP button.**

To change the sleep time:
Press the SLEEP button repeatedly to select the desired sleep time. The time will decrease as follows.
The amount of sleep time can also be changed whilst in the sleep mode.



3 **Your system will enter the power stand-by mode automatically after the preset time has elapsed.**

To cancel the sleep operation:
Press the ON/STAND-BY button whilst the sleep timer is set.

To confirm the remaining sleep time:
Press the SLEEP button whilst the sleep timer is set.
The remaining sleep time is displayed for about 3 seconds.

Note:
When you use the sleep operation with a cassette, set the sleep time longer than the remaining playback time of the cassette. If the unit enters the stand-by mode before the cassette reaches its end, the cassette mechanism or the tape may be damaged.

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Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● The clock is not on time.	● Did a power failure occur? Reset the clock. (Refer to page 13.)
● When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer to page 27.)
● No sound is heard.	● Is the volume level set to "MIN"? ● Are the headphones connected? ● Are the speaker wires disconnected?

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ Tuner

Symptom	Possible cause
● Radio makes unusual noise consecutively.	● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead or the unit if located near.

■ Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality. ● Cannot erase completely.	● Is it a normal tape? (You cannot record on a metal or CrO_2 tape.)
● Sound skipping. ● Cannot hear treble. ● Sound fluctuation.	● Is there any slack? ● Is the tape stretched? ● Are the capstans, pinch rollers, or heads dirty?

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity respected? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

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Troubleshooting chart (continued)

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:
If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)

1 Press the ON/STAND-BY button to enter the power stand-by mode.
2 Whilst pressing down the TUNER (BAND) button and the DISC SKIP button, press the ON/STAND-BY button until "CLEAR" appears.

Caution:
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

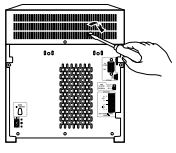
■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

■ Before transporting the unit

This unit is equipped with a transport safety screw on the back to prevent damage during transportation.

1 Press the ON/STAND-BY button to turn the power on.
2 Remove all discs from the unit and close the disc tray.
3 Press the ON/STAND-BY button to enter the stand-by mode.
● "SHARP" is displayed.
4 When "SHARP" disappears, unplug the AC power lead from the wall socket.
5 Insert the transport screw into the back of the unit and tighten it with a flat-blade screwdriver or a coin.



Caution:
If you tilt the unit forward during transportation without the transport screw, the disc tray may be slid open. It may damage the unit or CD.

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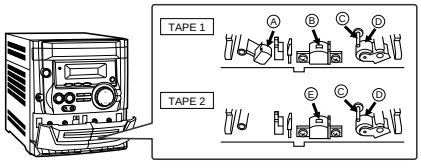
Maintenance

■ Cleaning the tape-handling parts

- Dirty heads, capstans or pinch rollers can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- When cleaning the heads, pinch rollers, etc., unplug the unit which contains high voltages.



Ⓐ Erase head
Ⓑ Recording/Playback head
Ⓒ Capstan
Ⓓ Pinch roller
Ⓔ Playback head

- After long use, the deck's heads and capstans may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.

■ Cleaning the cabinet

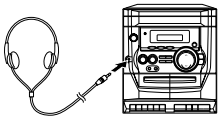
Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME buttons.



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Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 110/127/220/230 - 240 V, 50/60 Hz
Power consumption	48 W
Dimensions	Width: 270 mm (10-5/8") Height: 305 mm (12") Depth: 343 mm (13-1/2")
Weight	6.5 kg (14.3 lbs.)

■ Amplifier

Output power	MPO: 60 W (30 W + 30 W) (10 % T.H.D.) RMS: 40 W (20 W + 20 W) (10 % T.H.D.) RMS: 30 W (15 W + 15 W) (0.9 % T.H.D.)
Output terminals	Speakers: 8 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)
Input terminals	Microphone: 1 mV/600 ohms

■ CD player

Type	3-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 88 - 108 MHz AM: 531 - 1,602 kHz

■ Cassette deck

Frequency response	125 - 8,000 Hz (Normal tape)
Signal/noise ratio	50 dB (TAPE 1, recording/playback) 50 dB (TAPE 2, playback)
Wow and flutter	0.3 % (WRMS)

■ Speaker

Type	2-way type speaker system Tweeter 10 cm (4") Woofer
Maximum input power	40 W
Rated input power	20 W
Impedance	8 ohms
Dimensions	Width: 200 mm (7-7/8") Height: 305 mm (12") Depth: 167 mm (6-9/16")
Weight	2.1 kg (4.6 lbs.)/each

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